1. A phosphorous-containing compound having the following structure:

$$R_3$$
 $R_1$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_7$ 
 $R_7$ 

10

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wherein R<sub>1</sub>-R<sub>4</sub> independently are H, or C<sub>1</sub>-C<sub>4</sub> alkyl; X is a single bond,

alkyl, -OH, -NH<sub>2</sub>, -NO<sub>2</sub>, -COOH, -CHO or  $-OCH_2CHCH_2$ ; m is an integer of 0-2, and n is an integer of 1-4.

- 2. The compound as claimed in Claim 1, wherein is H.
- 3. The compound as claimed in Claim 1, wherein Y is -OH.
- 4. The compound as claimed in Claim 1, wherein Y is -COOH.
- 5. The compound as claimed in Claim 1, wherein Y is -OCH<sub>2</sub>CHCH<sub>2</sub>
  - 6. The compound as claimed in Claim 1, wherein  $R_1\text{-}R_4$  are H.
  - 7. The compound as claimed in Claim 1, wherein X is a single bond.
  - 8. The compound as claimed in Claim 1, wherein X is -CH<sub>2</sub>-.
  - 9. The compound as claimed in Claim 1, wherein X is  $-C(CH_3)_2$ -.
- 10. The compound as claimed in Claim 1, wherein m is 0.

- 11. A flame retardant resin prepared by blending a phosphorous-containing compound as defined in Claim 1 with a resin.
- 12. A flame retardant resin prepared by reacting the phosphorous-containing compound as defined in Claim 1 with a resin or a compound.